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PATENT & TRADEMARK OFFICE

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.	APPLICATION NO.
1900.0380001/JMC/CML	10/685,801
FIRST NAMED INVENTOR	
Allaway *et al.*	
FILING DATE	ART UNIT
October 16, 2003	1648

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BP	AA1	5,444,044	08/22/1995	Jiang *et al.*			03/26/1992
	AB1	5,464,933	11/07/1995	Bolognesi *et al.*			06/07/1993
	AC1	5,596,497	01/21/1997	Honda			02/16/1995
	AD1	5,656,480	08/12/1997	Wild *et al.*			01/27/1995
	AE1	5,817,767	10/06/1998	Allaway *et al.*			02/24/1993
	AF1	5,840,843	11/24/1998	Jiang *et al.*			06/07/1995
	AG1	6,008,044	12/28/1999	Cotropia			07/01/1998
	AH1	6,013,263	01/11/2000	Barney *et al.*			06/07/1995
	AI1	6,015,881	01/18/2000	Kang *et al.*			05/01/1998
	AJ1	6,017,536	01/25/2000	Barney *et al.*			12/20/1994
	AK1	6,060,065	05/09/2000	Barney *et al.*			06/07/1995

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BP	AL1	WO 88/08429	11/03/1998	WIPO			Yes No
	AM1	WO 91/09872	07/11/1991	WIPO			Yes No
	AN1	WO 94/02505	02/03/1994	WIPO			Yes No
	AO1	WO 94/28920	12/22/1994	WIPO			Yes No
	AP1	WO 96/19495	06/27/1996	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

BP	AR	1	Allan, J.S., *et al.*, "Strong Association of Simian Immunodeficiency Virus (SIVagm) Envelope Glycoprotein Heterodimers: Possible Role in Receptor-Mediated Activation," *AIDS Res. Hum. Retroviruses* 8:2011-2020, Mary Ann Leibert, Inc., Publishers (Dec. 1992)
	AS	1	Arthos, J., *et al.*, "Identification of the Residues in Human CD4 Critical for the Binding of HIV," *Cell* 57:469-481, Cell Press (May 1989)
	AT	1	Barin, F., *et al.*, "Virus Envelope Protein of HTLV-III Represents Major Target Antigen for Antibodies in AIDS Patients," *Science* 228:1094-1096, Association for the Advancement of Science (May 1985)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BP	AA2	6,068,973	05/30/2000	Barney *et al.*			06/07/1995
	AB2	6,080,791	06/27/2000	Bodian *et al.*			07/24/1992
	AC2	6,150,088	11/21/2000	Chan *et al.*			04/17/1998
	AD2	6,248,574	06/19/2001	Shaffermann			12/13/1989
	AE2	6,258,599	07/10/2001	Gelder			01/14/2000
	AF2	6,333,395	12/25/2001	Barney *et al.*			06/07/1995
	AG2	6,335,017	01/01/2002	Gelder			10/02/2000
	AH2	6,420,545	07/16/2002	Hoxie *et al.*			06/22/1999
	AI2	6,479,055	11/12/2002	Bolognesi *et al.*			06/06/1995
	AJ2	6,506,554	01/14/2003	Chan *et al.*			01/18/2000
	AK2	6,518,013	02/11/2003	Barney *et al.*			06/07/1995

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BP	AL2	WO 00/06599	02/10/2000	WIPO			Yes No
	AM2	WO 00/40616	07/13/2000	WIPO			Yes No
	AN2	WO 03/072028 A2	09/04/2003	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

BP	AR	2	Bosch M.L., *et al.*, "Identification of the fusion peptide of primate immunodeficiency viruses," *Science 244*:694-697, American Association for the Advancement of Science (1989)
	AS	2	Broder, C.C., and Dimitrov, D.S., "HIV and the 7-Transmembrane Domain Receptors," *Pathobiol. 64*:171-179, Karger (1996)
	AT	2	Callahan, L.N., *et al.*, "Dextran Sulfate Blocks Antibody Biding to the Principal Neutralizing Domain of Human Immunodeficiency Virus Type 1 without Interfering with sp120-CD4 Interactions," *J. Virol. 65*:American Society for Microbiology (1991)

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BP	AA3	6,605,427	08/12/2003	Wild *et al.*			02/09/2001
	AB3	6,623,741	09/23/2003	Antczak *et al.*			02/29/2000
	AC3	6,667,320	12/23/2003	Bridger *et al.*			12/15/2000
	AD3	6,670,181	12/30/2003	Gelder			11/05/2001
	AE3	6,710,173	03/23/2004	Binley *et al.*			06/23/2000
	AF3	6,716,429	04/06/2004	Sodroski *et al.*			10/01/1998
	AG3	2004/0063637	04/01/2004	Heilman *et al.*			09/16/2003
	AH3	2004/0052820	03/18/2004	Bolognesi *et al.*			10/08/2002
	AI3	2001/0044183	11/22/2001	Io			07/20/2001
	AJ3	2003/0091594	05/15/2003	Hoxie *et al.*			07/16/2002
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BP	AR	3	Chan, D.C., and Kim, P.S., "HIV Entry and Its Inhibition," *Cell 93*:681-684, Cell Press (May 1998)
	AS	3	Chan, D.C., *et al.*, "Core Structure of gp41 from the HIV Envelope Glycoprotein," *Cell 89*:263-273, Cell Press (Apr. 1997)
	AT	3	Chen, C-H., *et al.*, "Monoclonal Antibodies That Bind to the Core of Fusion-Active Glycoprotein 41," *AIDS Res. Hum. Retroviruses 16*:2037-2041, Mary Ann Liebert, Inc., Publishers (Dec. 2000)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

BP	AR	4	Chen, C-H., *et al.*, "A Molecular Clasp in the Human Immunodeficiency Virus (HIV) Type 1 TM Protein Determines the Anti-HIV Activity of gp41 Derivatives: Implication for Viral Fusion," *J. Virol. 69*:3771-3777, American Society for Microbiology (Jun. 1995)
↓	AS	4	Choe, H., *et al.*, "The β-Chemokine Receptors CCR3 and CCR5 Facilitate Infection by Primary HIV-1 Isolates," *Cell 85*:1135-1148, Cell Press (Jun. 1996)
↓	AT	4	Clapham, P.R., *et al.*, "Human Immunodeficiency Virus Type 2 Infection and Fusion of CD4-Negative Human Cell Lines: Induction and Enhancement by Soluble CD4," *J. Virol. 66*:3531-3537, American Society for Microbiology (Jun. 1992)

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	AP						Yes No

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BP	AR	5	Delwart, E.L., *et al.*, "Retroviral envelope glycoproteins contain a "leucine zipper"-like repeat," *AIDS Res. Hum. Retroviruses* 6:703-704, Mary Ann Liebert, Inc. (1990)
↓	AS	5	Deng, H., *et al.*, "Identification of a major co-receptor for primary isolates of HIV-1," *Nature* 381:661-666, Macmillan Publishers Ltd. (Jun. 1996)
↓	AT	5	DeVico, A.L., *et al.*, "Monoclonal antibodies raised against covalently crosslinked complexes of human immunodeficiency virus type 1 gp120 and CD4 receptor identify a novel complex-dependent epitope on gp 120," *Virology* 211:583-588, Academic Press (1995)

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BP	AR	6	Donzella, G.A., *et al.*, "AMD3100, a small molecule inhibitor of HIV-1 entry via the CXCR4 co-receptor," *Nat. Med.* 4:72-77, Nature Publishing Company (Jan. 1998)
↓	AS	6	Doranz, B.J., *et al.*, "A Dual-Tropic Primary HIV-1 Isolate That Uses Fusin and the .beta.-Chemokine Receptors CKR-5, CKR-3, and CKR-2b as Fusion Cofactors," *Cell 85*:1149-1158, Cell Press (Jun. 1996)
↓	AT	6	Doranz, B.J., *et al.*, "Use of a gp120 Binding Assay To Dissect the Requirements and Kinetics of Human Immunodeficiency Virus Fusion Events," *J. Virol.* 73:10346-10358, American Society for Microbiology (1999)

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BP	AR	7	Dragic, T., *et al.*, "HIV-1 entry into CD4.sup.+ cells is mediated by the chemokine receptor CC-CKR-5," *Nature 381*:667-673, Macmillan Publishers Ltd. (Jun. 1996)
↓	AS	7	Earl, P.L., *et al.*, "Biological and immunological properties of human immunodeficiency virus type 1 envelope glycoprotein: analysis of proteins with truncations and deletions expressed by recombinant vaccinia viruses," *J. Virol. 65*:31-41, American Society for Microbiology (1991)
↓	AT	7	Earl, P.L., *et al.*, "Epitope Map of Human Immunodeficiency Virus Type 1 gp41 Derived from 47 Monoclonal Antibodies Produced by Immunization with Oligomeric Envelope Protein," *J. Virol. 71*:2674-2684, American Society for Microbiology (Apr. 1997)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

BP	AR	8	Eckert, D.M., *et al.*, "Inhibiting HIV-1 Entry: Discovery of D-Peptide Inhibitors that Target the gp41 Coiled-Coil Pocket," *Cell 99*:103-115, Cell Press (Oct. 1999)
↓	AS	8	Eiden, L.E., and Lifson, J.D., "HIV Interactions with CD4: a continuum of conformations and consequences," *Immunol. Today 13*:201-206, Elsevier Science Publishers Ltd. (1992)
↓	AT	8	Feng, Y., *et al.*, "HIV-1 Entry Cofactor: Functional cDNA Cloning of a Seven-Transmembrane, G Protein-Coupled Receptor," *Science 272*:872-877, Association for the Advancement of Science (May 1996)

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BP	AR	9	Ferrer, M., *et al.*, "Selection of gp41-mediated HIV-1 cell entry inhibitors from biased combinatorial libraries of non-natural binding elements," *Nat. Struct. Biol. 6*:953-959, Nature Publishing Group (Oct. 1999)
↓	AS	9	Folks, T.M., *et al.*, "Biological and biochemical characterization of a cloned Leu-3- cell surviving infection with the acquired immune deficiency syndrome retrovirus," *J. Exp. Med. 164*:280-290, Rockefeller University Press (1986)
↓	AT	9	Freed, E.O., *et al.*, "Characterization of the fusion domain of the human immunodeficiency virus type 1 envelope glycoprotein gp41," *Proc. Natl. Acad. Sci. USA 87*:4650-4654, National Academy of Sciences of the USA (Jun. 1990)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

BP	AR	10	Furata, R.A., *et al.*, "Capture of an early fusion-active conformation of HIV-1 gp41," *Nat. Struct. Biol.* 5:276-279, Nature Publishing Company (Apr. 1998)
↓	AS	10	Gallaher, W.R., *et al.*, "A General Model for the Transmembrane Proteins of HIV and Other Retroviruses," *AIDS Res. Hum. Retroviruses* 5:431-440, Mary Ann Leibert, Inc., Publishers (Aug. 1989)
↓	AT	10	Gendelman, H.E., *et al.*, "Molecular characterization of a polymerase mutant human immunodeficiency virus," *Virology 160*:323-329, Academic Press (1987)

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BP	AR	11	Haddrick, M., *et al.*, "Production of non-infectious human immunodeficiency virus-like particles which package specifically viral RNA," *J. Virol. Methods* 61:89-93, Elsevier Science (1996)
↓	AS	11	Hoffman, L.R., *et al.*, "Structure-based Identification of an Inducer of the Low-pH Conformational Change in the Influenza Virus Hemagglutinin: Irreversible Inhibition of Infectivity," *J. Virol.* 71:8808-8820, American Society for Microbiology (1997)
↓	AT	11	Jiang, S., *et al.*, "A Conformation-Specific Monoclonal Antibody Reacting with Fusion-Active gp41 from the Human Immunodeficiency Virus Type 1 Envelope Glycoprotein," *J. Virol.* 72:10213-10217, American Society for Microbiology (Dec. 1998)

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	AP						Yes No

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BP	AR	12	Jiang, S., *et al.*, "A screening assay for antiviral compounds targeted to the HIV-1 gp41 core structure using a conformation-specific monoclonal antibody," *J. Virol. Meth. 80*:85-96, Elsevier Science (Jun. 1999)
↓	AS	12	Katz, E., and Moss, B., "Immunogenicity of recombinant vaccinia viruses that display the HIV type 1 envelope glycoprotein on the surface of infectious virions," *AIDS Res. Hum. Retroviruses 13*:1497-1500, Mary Ann Liebert, Inc. (1997)
↓	AT	12	Kemble, G.W., *et al.*, "Intermonomer Disulfide Bonds Impair the Fusion Activity of Influenza Virus Hemagglutinin," *J. Virol. 66*:4940-4950, American Society for Microbiology (Aug. 1992)

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	AO						Yes No
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	AR	13	Kwong, P.D., *et al.*, "Structure of an HIV gp120 envelope glycoprotein in complex with the CD4 receptor and a neutralizing human antibody," *Nature 393*:648-659, Nature Pub. Co. (1998)
	AS	13	Lambert, D.M., *et al.*, "Peptides from conserved regions of paramyxovirus fusion (F) proteins are potent inhibitors of viral fusion," *Proc. Natl. Acad. Sci. USA 93*:2186-2191, National Academy of Sciences of the USA (Mar. 1996)
	AT	13	Lifson, J.D., *et al.*, "AIDS Retrovirus Induced Cytopathology: Giant Cell Formation and Involvement of CD4 Antigen," *Science 232*:1123-1127, Association for the Advancement of Science (May 1986)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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BP	AR	14	Lifson, J.D., *et al.*, "Induction of CD4-dependent cell fusion by the HTLV-III/LAV envelope glycoprotein," *Nature 323*:725-728, Macmillan Publishers Ltd. (Oct. 1986)
↓	AS	14	Lightfoote, M.M., *et al.*, "Structural characterization of reverse transcriptase and endonuclease polypeptides of the acquired immunodeficiency syndrome retrovirus," *J. Virol. 60*:771-775, American Society for Microbiology (1986)
↓	AT	14	Lu, M., *et al.*, "A trimeric structural domain of the HIV-1 transmembrane glycoprotein," *Nat. Struct. Biol. 2*:1075-1082, Nature Publishing Company (Dec. 1995)

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BP	AR	15	Muster, T., *et al.*, "A Conserved Neutralizing Epitope on gp41 of Human Immunodeficiency Virus Type 1," *J. Virol. 67*:6642-6647, American Society for Microbiology (Nov. 1993)
↓	AS	15	Muster, T., *et al.*, "Cross-Neutralizing Activity against Divergent Human Immunodeficiency Virus Type 1 Isolates Induced by the gp41 Sequence ELDKWAS," *J. Virol. 68*:4031-4034, American Society for Microbiology (Jun. 1994)
↓	AT	15	Rencher, S.D., *et al.*, "Eliciting HIV-1 envelope-specific antibodies with mixed vaccinia virus recombinants," *Vaccine 15*:265-272, Elsevier Science (1997)

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BP	AR	16	Rossio, J.L., *et al.*, "Inactivation of Human Immunodeficiency Virus Type 1 Infectivity with Preservation of Conformational and Functional Integrity of Virion Surface Proteins," *J. Virol.* 72:7992-8001, American Society for Microbiology (1998)
↓	AS	16	Ryu, J.-R. *et al.*, "Development of an in vitro Assay system for Screening of gp41 Inhibitory Compounds," *Mol. Cells* 8:717-723, Springer-Verlag (1998)
↓	AT	16	Sattentau, Q.J. and Moore, J.P., "Conformational Changes Induced in the Human Immunodeficiency Virus Envelope Glycoprotein by Soluble CD4 Binding," *J. Exp. Med.* 174:407-415, The Rockefeller University Press (Aug. 1991)

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BP	AR	17	Sattentau, Q.J., and Moore, J.P., "Human Immunodeficiency Virus Type 1 Neutralization Is Determined by Epitope Exposure on the gp120 Oligomer," *J. Exp. Med. 182*:185-196, The Rockefeller University Press (Jul. 1995)
↓	AS	17	Slepushkin, V.A., *et al.*, "Investigation of Human Immunodeficiency Virus Fusion Peptides. Analysis of Interrelations Between Their Structure and Function," *AIDS Res. Hum. Retroviruses 8*:9-18, Mary Ann Leibert, Inc., Publishers (Jan. 1992)
↓	AT	17	Sullivan, N., *et al.*, "CD4-Induced conformational changes in the human immunodeficiency virus type 1 gp120 glycoprotein: consequences for virus entry and neutralization," *J. Virol. 72*:4694-4703, American Society for Microbiology (1998)

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BP	AR	18	Thali, M., *et al.*, "Characterization of conserved human immunodeficiency virus type 1 gp120 neutralization epitopes exposed upon gp120-CD4 binding," *J. Virol. 67*:3978-88, American Society for Microbiology (1993)
↓	AS	18	VanCott, T.C., *et al.*, "Antibodies with Specificity to Native gp120 and Neutralization Activity against Primary Human Immunodeficiency Virus Type 1 Isolates Elicited by Immunization with Oligomeric gp160," *J. Virol. 71*:4319-4330, American Society for Microbiology (June 1997)
↓	AT	18	Weissenhorn, W., *et al.*, "Atomic structure of the ectodomain from HIV-1 gp41," *Nature 387*:426-430, Macmillan Publishers Ltd. (May 1997)

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BP	AR	19	White, J.M., and Wilson, I.A., "Anti-Peptide Antibodies Detect Steps in a Protein Conformational Change: Low-pH Activation of the Influenza Virus Hemagglutinin," *J. Cell Biol. 105*:2887-2896, The Rockefeller University Press, Inc. (Dec. 1987)
↓	AS	19	Wild, C., *et al.*, "A Synthetic Peptide from HIV-1 gp41 Is a Potent Inhibitor of Virus-Mediated Cell-Cell Fusion," *AIDS Res. Hum. Retroviruses 9*:1051-1053, Mary Ann Leibert, Inc., Publishers (Nov. 1993)
↓	AT	19	Wild, C., *et al.*, "A synthetic peptide inhibitor of human immunodeficiency virus replication: Correlation between solution structure and viral inhibition," *Proc. Natl. Acad. Sci. USA 89*:10537-10541, National Academy of Sciences of the USA (Nov. 1992)

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BP	AR	20	Wild, C., *et al.*, "Peptides corresponding to a predictive .alpha.-helical domain of human immunodeficiency virus type 1 gp41 are potent inhibitors of virus infection," *Proc. Natl. Acad. Sci. USA 91*:9770-9774, National Academy of Sciences of the USA (Oct. 1994)
↓	AS	20	Wild, C., *et al.*, "Propensity for a leucine zipper-like domain of human immunodeficiency virus type 1 gp41 to form oligomers correlates with a role in virus-induced fusion rather than assembly of the glycoprotein complex," *Proc. Natl. Acad. Sci. USA 91*:12676-12680, National Academy of Sciences of the USA (Dec. 1994)
↓	AT	20	Wild, C., *et al.*, "The Inhibitory Activity of an HIV Type 1 Peptide Correlates with Its Ability to Interact with a Leucine Zipper Structure," *AIDS Res. Hum. Retroviruses 11*:323-325, Mary Ann Leibert, Inc., Publishers (Mar. 1995)

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BP	AR	21	Wyatt, R., *et al.*, "Involvement of the V1/V2 variable loop structure in the exposure of human immunodeficiency virus type 1 gp120 epitopes induced by receptor binding," *J. Virol.* 69:5723-5733, American Society for Microbiology (1995)
↓	AS	21	Yamshchikov, G.V., *et al.*, "Assembly of SIV virus-like particles containing envelope proteins using a baculovirus expression system," *Virology 21*:50-58, Academic Press (1995)
↓	AT	21	Database Entrez-PubMed, Abstract for Jiang, S., *et al.*, "A conformation-specific monoclonal antibody reacting with fusion-active gp41 from the human immunodeficiency virus type 1 envelope glycoprotein," *J. Virol.* 72:10213-10217, American Society for Microbiology (1998)

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BP	AR	22	Database Entrez-PubMed, Abstract for Jiang, S., *et al.*, "A screening assay for antiviral compounds targeted to the HIV-1 gp41 core structure using a conformation-specific monoclonal antibody," *J. Virol. Methods 80*:85-96, Elsevier Science (1999)
↓	AS	22	Database Entrez-PubMed, Abstract for McMahon, J.B., *et al.*, "Development of a cyanovirin-N-HIV-1 gp120 binding assay for high throughput screening of natural product extracts by time-resolved fluorescence," *J. Biomol. Screen. 5*:169-176, Mary Ann Liebert, Inc. (2000)
↓	AT	22	Database Entrez-PubMed, Abstract for Sunila, I., *et al.*, "gp120 is present on the plasma membrane of apoptotic CD4 cells prepared from lymph nodes of HIV-1-infected individuals: an immunoelectron microscopic study," *AIDS 11*:27-32, Lippincott Williams & Wilkins (1997)

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BP	AR	23	Database Entrez-PubMed, Abstract for Zhang, W., *et al.*, "Antibody 17b binding at the coreceptor site weakens the kinetics of the interaction of envelope glycoprotein gp120 with CD4," *Biochemistry 40*:1662-1670, American Chemical Society (2001)
	AS	23	International Search Report for International Patent Application No. PCT/US03/32582, mailed April 13, 2004, Alexandria, VA
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